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FIG. 1

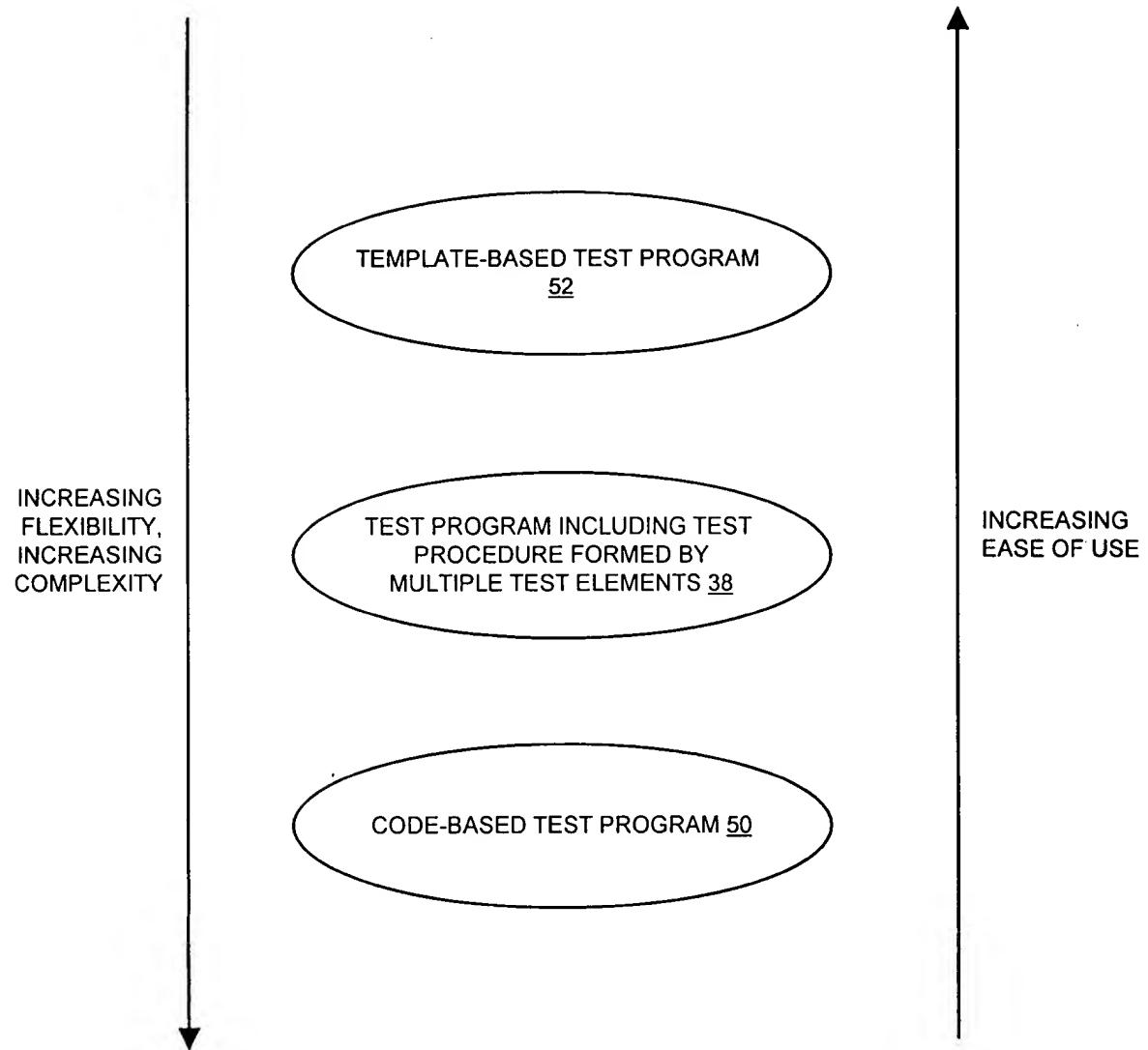


FIG. 2

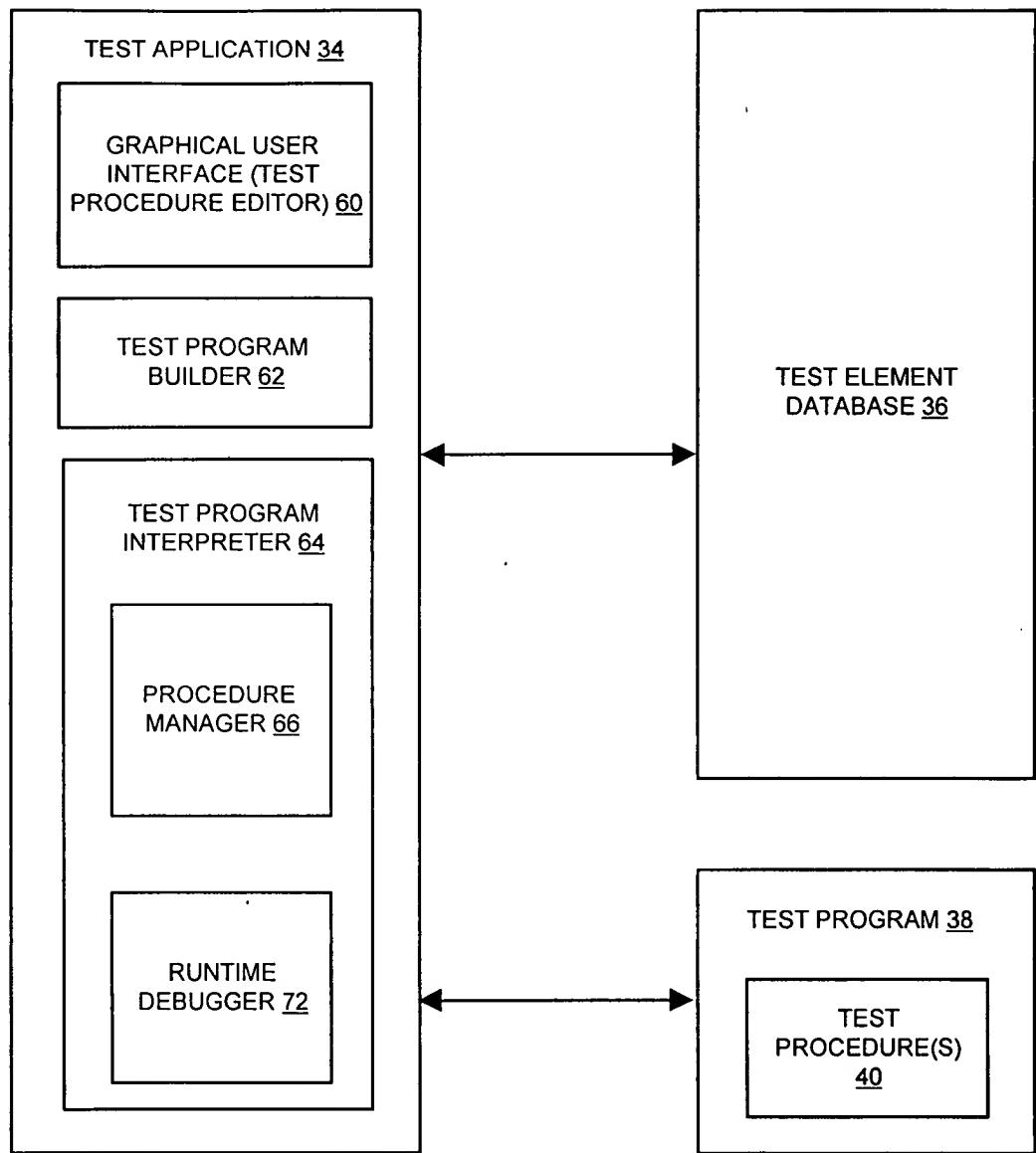


FIG. 3

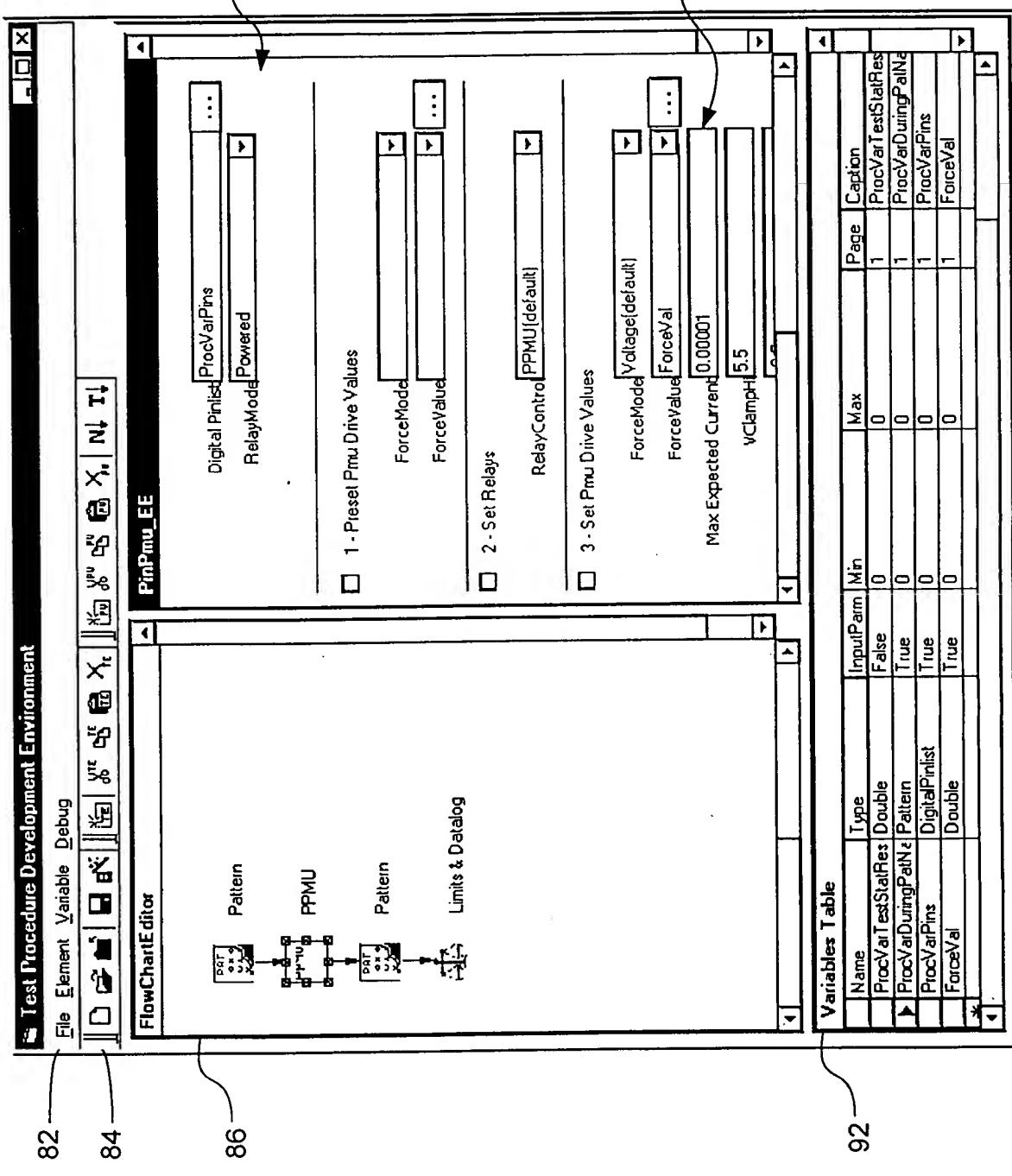


FIG. 4

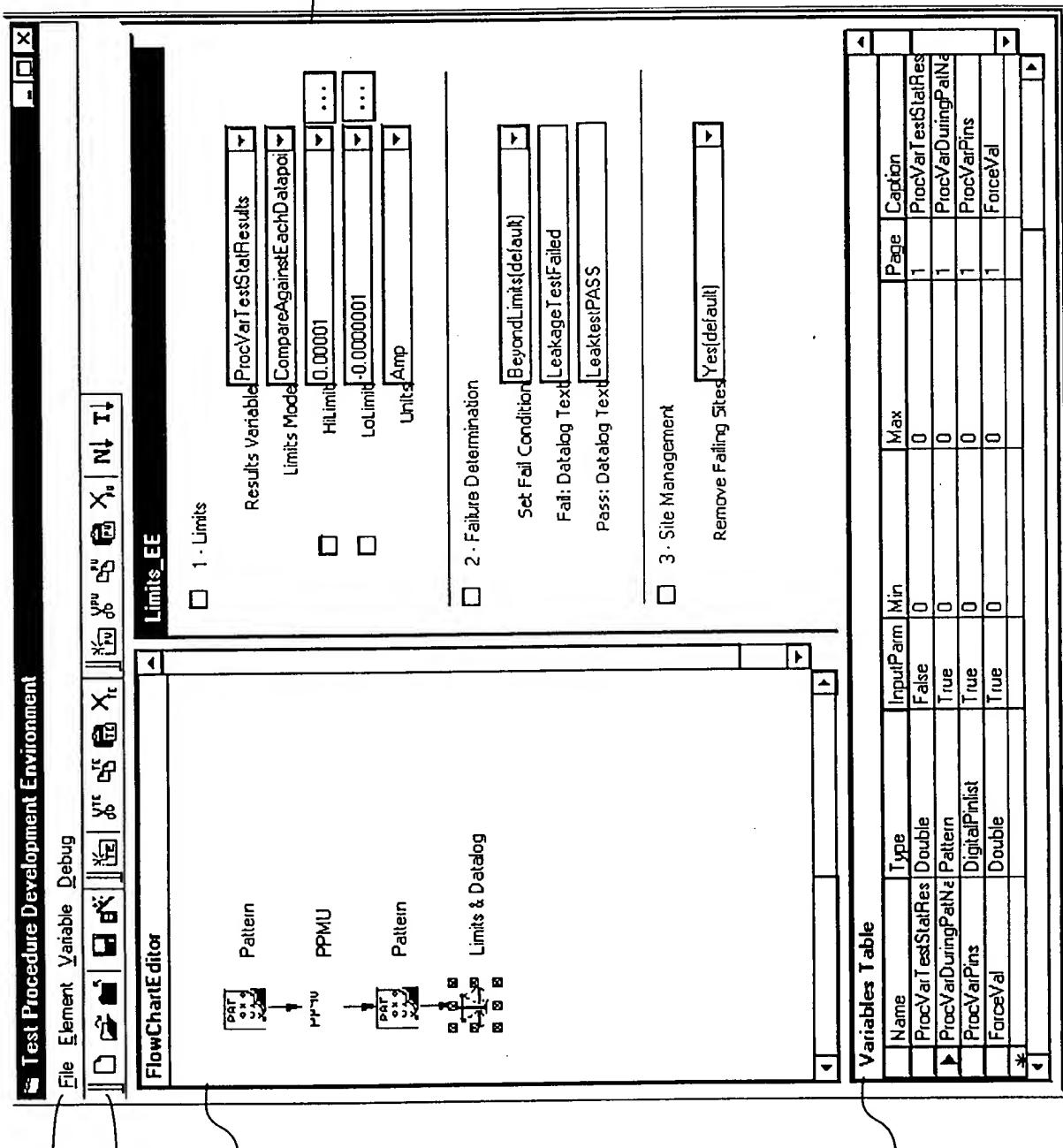


FIG. 5

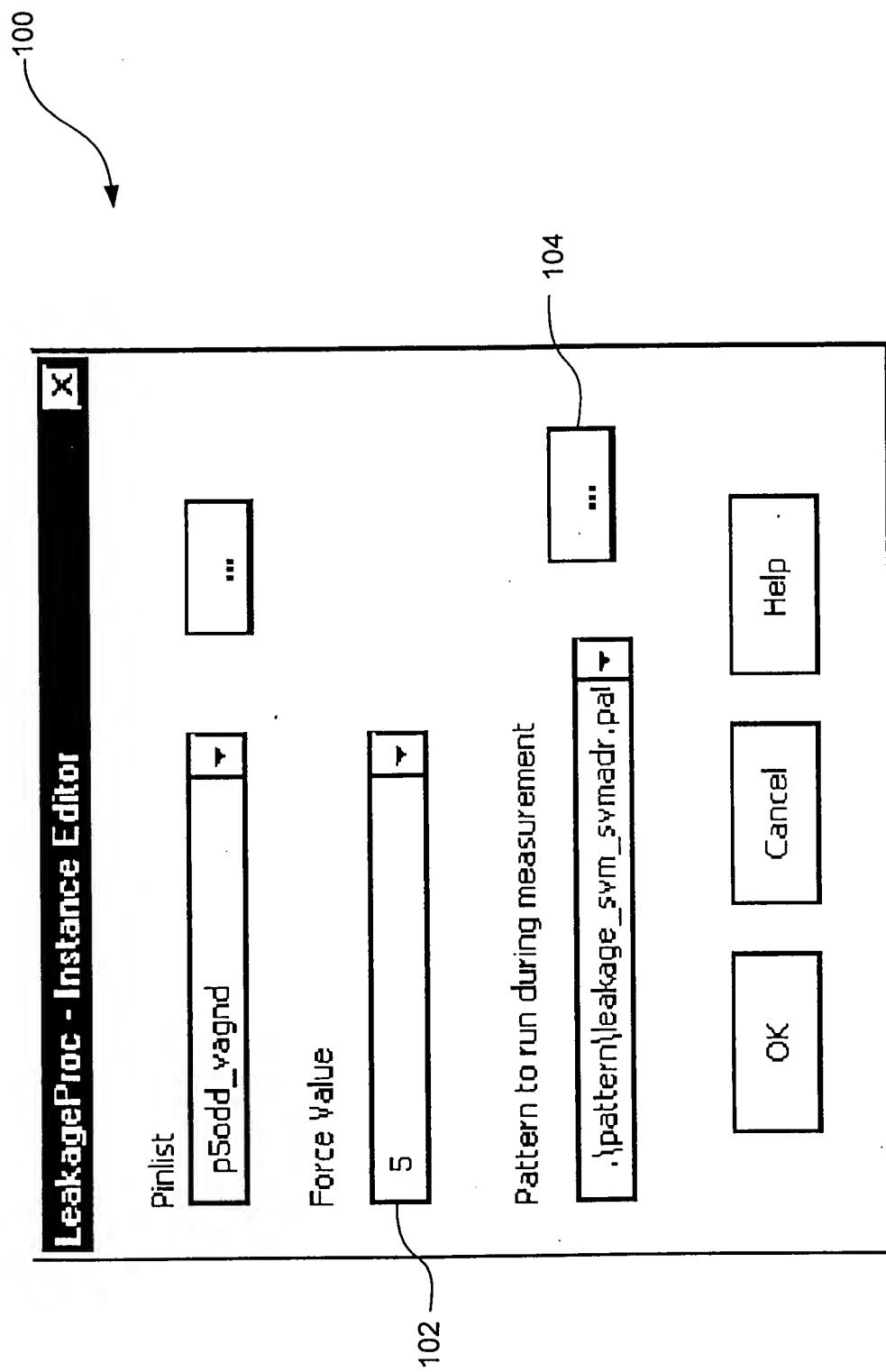


FIG. 6

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Microsoft Visual Basic - Element.xls [running] - [PinPmu_E (Code)]
File Edit View Insert Format Debug Run Tools Window Help
X & T & A & F & A & I & C & P & L & S & D & R & U & V & W & X & Y & Z & Ln 58, Col 1
General TestElement
 3 - Set Drive Values
If (SetForceValue.ArgumentValue <> TL_C_EMPTYSTR) And
  (SetIMagnitudeValue.ArgumentValue <> TL_C_EMPTYSTR) Then
  With TheHdw.Pins(PinList.ArgumentValue)
    If CSrr(SetForceMode.ArgumentValue) = TL_C_CURRENT Then
      ' force current
      If CStr(VCclampLo.ArgumentValue) <> TL_C_EMPTYSTR Then
        Call .PinLevels.ModifyLevel(chVCL, CDbi(Val(VCclampLo.ArgumentValue)))
      End If
      If CStr(VCclampHi.ArgumentValue) <> TL_C_EMPTYSTR Then
        Call .PinLevels.ModifyLevel(chVCH, CDbi(Val(VCclampHi.ArgumentValue)))
      End If
    If CSrr(SetRelayControl.ArgumentValue) <> tl_GetIndexof(TL_C_PPRCPFSTR) Then
      te_IrangeIdx = tl_te_GetBestRange(SetForceValue.ArgumentValue, TheHdw.PPMU.ForceIRangelist, 1)
      ' set the Ppmu in a current forcing mode, and voltage measure mode
      .PPMU.ForceCurrent(te_IrangeIdx) = SetForceValue.ArgumentValue
    If (VCclampLo.ArgumentStr <> TL_C_EMPTYSTR) Or (VCclampHi.ArgumentStr <> TL_C_EMPTYSTR) Then
      'if clamps are used, then the PE relay is closed, and this then
      ' requires that the current loads be set to zero.
      Call .PinLevels.ModifyLevel(chISource, 0)
      Call .PinLevels.ModifyLevel(chISink, 0)
    End If
  End If
  If CSrr(SetRelayControl.ArgumentValue) = tl_GetIndexof(TL_C_PPRCPFSTR) Then
    te_IrangeIdx = tl_te_GetBestChange(0, TheHdw.PPMU.ForceIRangelist, True)
    ' Override functional Load levels on Pin Electronics
    ' set the PPMU itself to force 0x
    .PPMU.ForceCurrent(te_IrangeIdx) = 0#
    ' Modify programmed load on Pin Electronics
    If CDbi(Val(SetForceValue.ArgumentValue)) > 0 Then
      ' set VT to ensure that load will be applied
      Call .PinLevels.ModifyLevel(chVT, TL_MAX_VT_LEVEL)
      ' set the load current
      Call .PinLevels.ModifyLevel(chISource, SetForceValue.ArgumentValue)
    Else
      ' set VT to ensure that load will be applied
    End If
  End If
End If
End Sub

```

FIG. 7

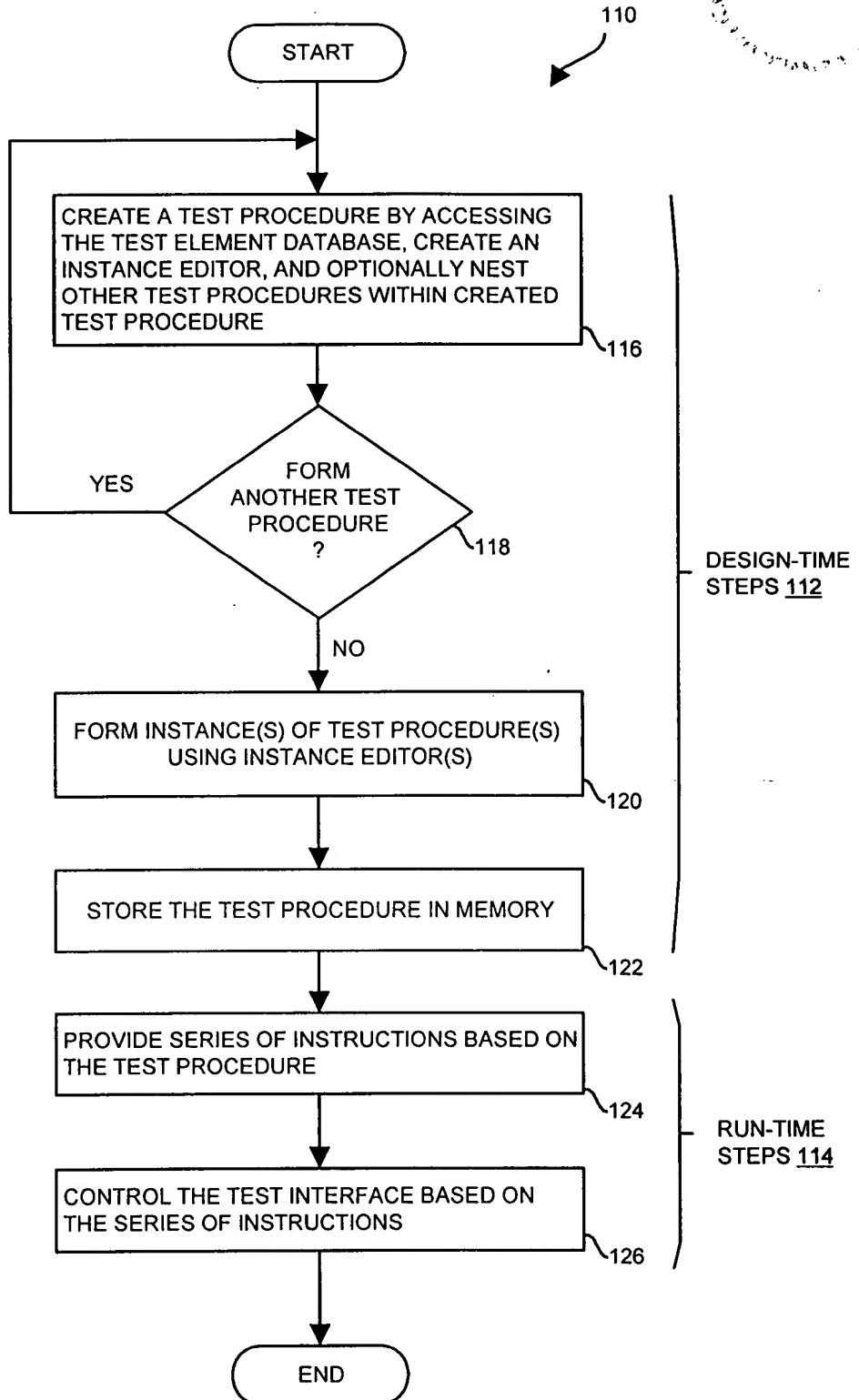


FIG. 8

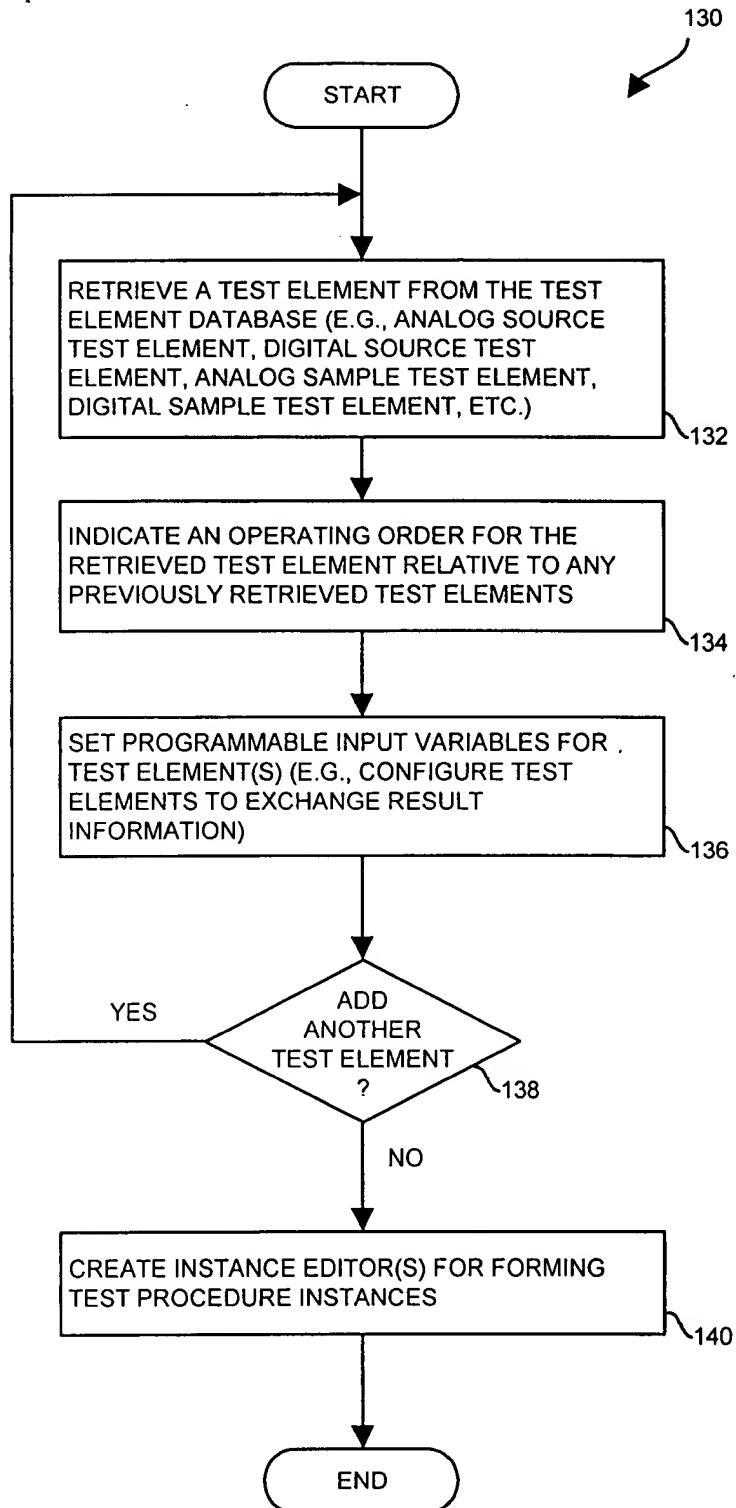


FIG. 9